

Powder Valley Conservation Nature Center

Serving Nature and You for 25 years!

2016–2017

School Programs

****New programs this year. Be sure to check them out.****



Programs available Wednesday–Friday
Sept 28, 2016–Dec 6, 2016 and Feb 15–May 12, 2017.

To reserve a school program, complete the Program Request Form available on line at <http://nature.mdc.mo.gov/discover-nature/places/powder-valley-cnc> or call 314-301-1500 and request a copy of the form. All requests received by Saturday, August 20, 2016 will be in the program lottery. Requests received after that date will be considered depending on program availability. See page 2 for instructions.

You will be notified of the status of your request by August 26, 2016.



Powder Valley Conservation Nature Center
11715 Cragwold Road
Kirkwood, Missouri 63122
314-301-1500

Application Instructions

Follow these steps to enter the school program lottery.

1. Download and save the application form.
2. Complete and save the form.
3. Email the completed form to:
ProgramRequests@mdc.mo.gov

OR

Mail the completed form to:
School Program Request
Powder Valley Conservation Nature Center
11715 Cragwold Rd.
Kirkwood, MO 63122

OR

FAX to: 314-301-1501

GROUP OPTIONS

Pre K–2nd grade single and double programs are 1 ½ hours and include indoor and outdoor components. We recommend one adult chaperone per four students.

3rd–12th grade single and double programs are 2 hours and include both indoor and outdoor components. We recommend one adult chaperone per six students (3rd–5th grade) or eight students (6th–12th grade).

PLEASE NOTE:

Single and double group options do not include time for exploring the exhibits. If you wish to explore the exhibits, please allow extra time after your program.

| DOUBLE GROUP SIZE | TRIPLE GROUP SIZE | QUADRUPLE GROUP SIZE |
|---|---|--|
| Pre K–K: 21–40 students; 1 st –12 th : 26–50 students. | Pre K–K: 41–60 students; 1 st –12 th : 51–75 students. | Pre K–K: 61–80 students; 1 st –12 th : 76–100 students. |
| Minimum time scheduled: 1½ hours | Minimum time scheduled: 2½ hours or 3 hours with lunch break | Minimum time scheduled: 3 hours or 3 1/2 hours with lunch break |
| | Includes one teacher-led rotation. | Includes two teacher-led rotations. |

All Grades

One Hour Seasonal Hikes

Discover the seasons and what's happening in the forest through observations and hands-on outdoor activities. Each hike is unique as students observe the natural changes occurring throughout the year.

Sept 28–Oct 20, 2016 and March 29–May 12, 2017

Pre K–K

Amazing Amphibians!

How do amphibians grow? How are they different from other animals? Discover the answers to these questions through mimicry and live animals.

Pre K–2nd Grade

Budding Biologists 1-Hour Hike

What do biologists study? Explore outdoors and learn to distinguish between living and non-living things. Work as field scientists to examine the forest floor.

Insect Inspectors

Did that critter have six legs or eight? Was it a spider or an insect? Catch and observe all kinds of insects living right under your nose.

Seeds on the Move (Formerly Let's Pollinate!)

Flowers can't walk, swim, or fly, so how do they spread to different places? Learn about pollination, seed dispersal, parts of flowers, and types of seeds through games and hands-on exploration. Outside, we will see what is happening in the garden and try to observe some pollinators in action.

Get a Life Cycle!

(Recommended for Grades 1 and 2)

How do life cycles differ within the animal world? Explore metamorphosis and growth through the fascinating lives of insects, amphibians, and birds. Outdoors, search for animals in different life stages.

3rd–5th Grade

Web of Life

Nature weaves an intricate web, and every species is accounted for, from the smallest microbe to the largest predator. Become familiar with consumers, producers, and decomposers as you classify organisms by their roles in the food chain. As part of the program, you will be able to put your new food web knowledge to use when you dissect an owl pellet in the classroom.

3rd–12th Grade

Outdoor Adventures

Venture into the forest to explore nature using compass and GPS. Learn the basics of how to use these tools, then set off on an adventure to discover nature. With teamwork and observations of the land, students will navigate through ecology theme-based orienteering courses.

Watershed Wonders

(Please note program length:

Single and Double groups - 3 hours

Triple and Quadruple groups - 4 hours)

All life, including humans, depends on water. Learn about watersheds, and how the biotic and abiotic factors within a watershed affect our waterways through hands-on experiences and investigations. Explore an aquatic ecosystem by testing the water quality and sampling for aquatic macroinvertebrates. This program is a good water quality STEM experience for middle school students.

Sept 28–Dec 9, 2016 and Feb 15–May 12, 2017

Pre K–K

Bird Buddies

Explore the characteristics of birds through hands-on activities and mimicry. Go on a bird hike and make a pair of binoculars to take home.

I Like to Move It, Move It!

Take a close look at animal movement and behavior. Learn how animals use different parts of their bodies to function and survive in the wild. Dramatic play, live animals, and a hike will be a part of this “moving” experience!

Pre K–2nd Grade

Furry, Feathered, Scaly, or Smooth?

Want to learn what animals feel like and how their outer layers keep them protected? We’ve got you covered! Warm up to the world of animal coverings and the special adaptations that help them survive in their environments.

Mammalogy for Minis

Walk in the tracks of a rabbit.... burrow like a mole! Become a different mammal by observing and behaving like several Missouri mammals. Explore mammal traits and hike to find some furry residents of Powder Valley.

3rd–5th Grade

Creatures of Habitat

A habitat provides food, water, shelter, and space for the animals living there. It sounds nice and easy, but life in the wild is tough. Learn how animals use their diverse adaptations to survive in their habitats. Be prepared to explore the habitats of Powder Valley.

MAD Wildlife

Seasonal changes affect the behavior of plants and animals. Winter is one of the most stressful times of the year for most organisms. Students will participate in activities to learn how different species use migration, adaptation, dormancy, or other strategies to survive during these seasonal changes.

3rd–12th Grade

*** Survival Skills***

Do you have what it takes to survive when lost in the wilderness? Learn about tools and skills that may be useful in a survival situation. Discover how to build a shelter and create a fire during a hands-on learning experience.

The following two programs are 2 hours long and for Single and Double groups only.)

*** Nature Journaling ***

Art, science, and language arts all come together in this study of the natural world. Students will learn to use poetry, writing, map-making, and sketching to record the observations they make as they sit quietly in the forest. Tools and a take-home journal will be provided.

*** Who Will Survive? ***

Become an endangered species from Missouri and learn about the hardships you must go through to survive every day. This program turns Powder Valley into a giant game board as you move from station to station. Learn about the needs of your species: Food, habitat, water, and threats from humans in this interactive program.

March 29–May 12, 2017

CSI: Critter Scene Investigation

Uncover the mysteries animals leave behind using your best detective skills to search for clues. Students will use dichotomous keys, field guides, and other resources to test their observation and analytical skills to solve nature’s mysteries.

**See page 5 for Discover Nature Schools contact information.
314-301-1500.**



To schedule your Discover Nature School field trip contact the nature center at 314-301-1500.

Contact your local Conservation Education Consultant to learn more about Discover Nature Schools.

St. Charles, Lincoln, and Warren Counties

Steven Juhlin

Steven.Juhlin@mdc.mo.gov

636-441-4554 ext. 4120

St. Louis County (South)

David Bruns

David.Bruns@mdc.mo.gov

314-301-1506 ext. 4212

St. Louis County (North)

Dick Turner

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314-301-1506 ext. 4215

St. Louis City

Matthew Magoc

Matthew.Magoc@mdc.mo.gov

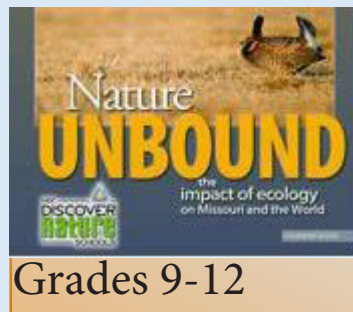
314-877-1309 ext. 1985

Crawford, Franklin, Jefferson, and Washington Counties

Sam Faith

Sam.Faith@mdc.mo.gov

696-451-3512 ext. 6031



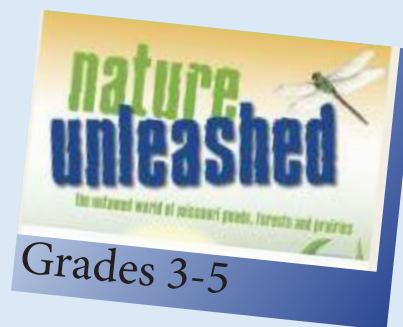
Grades 9-12



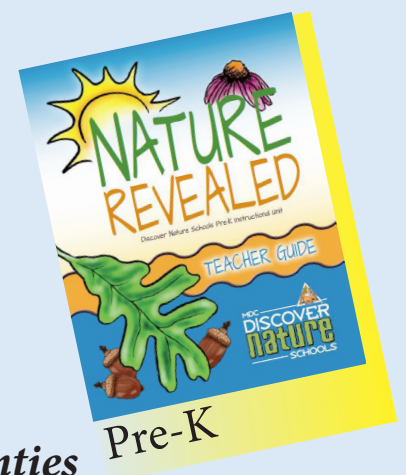
Grades K-2



Grades 6-8



Grades 3-5



Pre-K